EXHIBIT D

```c
/*  ****************************************************************
    File: ciphers.c

    SSL Plus: Security Integration Suite(tm)
    Version 1.1.1 -- August 11, 1997

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    ****************************************************************

    File: ciphers.c    Data structures for handling supported ciphers

    Contains a table mapping cipherSuite values to the ciphers, MAC
    algorithms, key exchange procedures and so on that are used for that
    algorithm, in order of preference.

    **************************************************************** */

#ifndef _CRYPTYPE_H_
#include <cryptype.h>
#endif

#ifndef _SSLCTX_H_
#include <sslctx.h>
#endif

#include <string.h>

extern SSLSymmetricCipher SSLCipherNull;
extern SSLSymmetricCipher SSLCipherDES_CBC;
extern SSLSymmetricCipher SSLCipherDES40_CBC;
extern SSLSymmetricCipher SSLCipherRC4_40;
extern SSLSymmetricCipher SSLCipherRC4_56;
extern SSLSymmetricCipher SSLCipherRC4_128;
extern SSLSymmetricCipher SSLCipher3DES_CBC;

/* Even if we don't support NULL_WITH_NULL_NULL for transport, we need a reference for startup
   */
SSLCipherSpec SSL_NULL_WITH_NULL_NULL_CipherSpec =
{   SSL_NULL_WITH_NULL_NULL,
    Exportable,
    SSL_NULL_auth,
    &SSLHashNullOpt,
    &SSLCipherNull
};

/* Disable non-exportable cipher suites to build an export only library */
#ifndef ENABLE_NONEXPORT_CIPHERS
#define ENABLE_NONEXPORT_CIPHERS 1
#endif

```

```
/* Disable exportable cipher suites to build a strong crypto only library */
#ifndef ENABLE_EXPORT_CIPHERS
#define ENABLE_EXPORT_CIPHERS 1
#endif

/* Reenable DH-anon only if you know you want to use Diffie-Hellman cipher suites:
   Enabling DH-anon leaves you open to a man-in-the-middle attack which can degrade your
    security to this level. */
#ifndef ENABLE_DH_ANON
#define ENABLE_DH_ANON 0
#endif

/* Reenable NULL encryption cipher suites only if you know for a fact you want to support
   unencrypted sessions. Unencrypted sessions do not provide data privacy and may be more
   vulnerable to attack than encrypted sessions. */
#ifndef ENABLE_NULL_CIPHERS
#define ENABLE_NULL_CIPHERS 0
#endif

#ifdef VIRGIN_SSLPLUS
/* Order by preference */
SSLCipherSpec KnownCipherSpecs[] =
{
#if ENABLE_NONEXPORT_CIPHERS
    {   SSL_RSA_WITH_3DES_EDE_CBC_SHA, NotExportable, SSL_RSA, &SSLHashSHA1, &SSLCipher3DES_CBC
  },
    {   SSL_RSA_WITH_RC4_128_SHA, NotExportable, SSL_RSA, &SSLHashSHA1, &SSLCipherRC4_128 },
    {   SSL_RSA_WITH_RC4_128_MD5, NotExportable, SSL_RSA, &SSLHashMD5, &SSLCipherRC4_128 },
    {   SSL_RSA_WITH_DES_CBC_SHA, NotExportable, SSL_RSA, &SSLHashSHA1, &SSLCipherDES_CBC },
#endif
#if ENABLE_EXPORT_CIPHERS
    {   SSL_RSA_EXPORT_WITH_RC4_40_MD5, Exportable, SSL_RSA_EXPORT, &SSLHashMD5,
  &SSLCipherRC4_40 },
    {   SSL_RSA_EXPORT_WITH_DES40_CBC_SHA, Exportable, SSL_RSA_EXPORT, &SSLHashSHA1,
  &SSLCipherDES40_CBC },
#endif
#if ENABLE_DH_ANON && ENABLE_NONEXPORT_CIPHERS
    {   SSL_DH_anon_WITH_3DES_EDE_CBC_SHA, NotExportable, SSL_DH_anon, &SSLHashSHA1,
  &SSLCipher3DES_CBC },
    {   SSL_DH_anon_WITH_RC4_128_MD5, NotExportable, SSL_DH_anon, &SSLHashMD5,
  &SSLCipherRC4_128 },
    {   SSL_DH_anon_WITH_DES_CBC_SHA, NotExportable, SSL_DH_anon, &SSLHashSHA1,
  &SSLCipherDES_CBC },
#endif
#if ENABLE_NULL_CIPHERS && ENABLE_EXPORT_CIPHERS
    {   SSL_RSA_WITH_NULL_SHA, Exportable, SSL_RSA, &SSLHashSHA1, &SSLCipherNull },
    {   SSL_RSA_WITH_NULL_MD5, Exportable, SSL_RSA, &SSLHashMD5, &SSLCipherNull }
#endif
};

int CipherSpecCount = sizeof(KnownCipherSpecs) / sizeof(SSLCipherSpec);
#endif /* VIRGIN_SSLPLUS */

SSLErr
FindCipherSpec(SSLContext *ctx, uint16 specID, SSLCipherSpec* *spec)
{
  int i;
  uint32 mask;

    *spec = 0;
    for (i = 0; i < CipherSpecCount; i++)
    {
          if (KnownCipherSpecs[i].cipherSpec == specID)
        {
                mask = (uint32) 1;
                mask <<= i;
                if(ctx->cipherspecs & mask)
                {
                        *spec = &KnownCipherSpecs[i];
                        break;
                }
        }
    }

    if (*spec == 0)         /* Not found */
        return SSLNegotiationErr;
    return SSLNoErr;
}

SSLErr SSLDESInit(uint8 *key, uint8* iv, void **cipherRef, SSLContext *ctx);
SSLErr SSLDESEncrypt(SSLBuffer src, SSLBuffer dest, SSLBuffer *iv, void *cipherRef, SSLContext
    *ctx);
SSLErr SSLDESDecrypt(SSLBuffer src, SSLBuffer dest, SSLBuffer *iv, void *cipherRef, SSLContext
    *ctx);
SSLErr SSLDESFinish(void *cipherRef, SSLContext *ctx);
SSLErr SSLDESExport(void *cipherRef, SSLContext *ctx, SSLBuffer *blob);
SSLErr SSLDESImport(void **cipherRef, SSLContext *ctx, SSLBuffer *blob);

SSLSymmetricCipher SSLCipherDES_CBC = {
    8,      /* Key size in bytes */
    8,      /* Secret key size = 64 bits */
    8,      /* IV size */
    8,      /* Block size */
    SSLDESInit,
    SSLDESEncrypt,
    SSLDESDecrypt,
    SSLDESFinish,
   SSLDESExport,
   SSLDESImport
};

SSLSymmetricCipher SSLCipherDES40_CBC = {
    8,      /* Key size in bytes */
    5,      /* Secret key size = 40 bits */
    8,      /* IV size */
    8,      /* Block size */
    SSLDESInit,
    SSLDESEncrypt,
    SSLDESDecrypt,
    SSLDESFinish
};

typedef struct _DESState
{
   unsigned char key[24]; /* work for 3DES and DES both */
   unsigned char iv[8];
   int reading; /* do we really need this? */
   B_ALGORITHM_OBJ des;
} DESState;

SSLErr
SSLDESInit(uint8 *key, uint8* iv, void **cipherRef, SSLContext *ctx)
{
   SSLBuffer                  desState;
     B_ALGORITHM_OBJ            *des;
     static B_ALGORITHM_METHOD  *chooser[] = { &AM_DES_CBC_ENCRYPT, &AM_DES_CBC_DECRYPT, 0 };
     B_KEY_OBJ                  desKey;
     ITEM                       keyData;
     SSLErr                     err;
     int                        rsaErr;
   DESState *s;

     if ((err = SSLAllocBuffer(&desState, sizeof(DESState), &ctx->sysCtx)) != 0)
         return err;
     s = (DESState *)desState.data;

   memcpy(s->key, key, 8);
   memcpy(s->iv, iv, 8);

     if ((rsaErr = B_CreateAlgorithmObject(&(s->des))) != 0)
         return SSLUnknownErr;
    if ((rsaErr = B_SetAlgorithmInfo(s->des, AI_DES_CBC_IV8, iv)) != 0)
        return SSLUnknownErr;
    if ((rsaErr = B_CreateKeyObject(&desKey)) != 0)
        return SSLUnknownErr;
    keyData.data = key;
    keyData.len = 8;
    if ((rsaErr = B_SetKeyInfo(desKey, KI_DES8, key)) != 0)
    {   B_DestroyKeyObject(&desKey);
        return SSLUnknownErr;
    }
    if (cipherRef == (void**)&(ctx->writePending.symCipherState))
    {
          s->reading = 0;
          if ((rsaErr = B_EncryptInit(*des, desKey, chooser, &ctx->sysCtx.yield)) != 0)
        {
                  B_DestroyKeyObject(&desKey);
            return SSLUnknownErr;
        }
    }
    else if (cipherRef == (void**)&(ctx->readPending.symCipherState))
    {
          s->reading = 1;
          if ((rsaErr = B_DecryptInit(*des, desKey, chooser, &ctx->sysCtx.yield)) != 0)
        {
                  B_DestroyKeyObject(&desKey);
            return SSLUnknownErr;
        }
    }
    else
        ASSERTMSG("Couldn't determine read/writeness");

    B_DestroyKeyObject(&desKey);
    *cipherRef = (void*)s;
    return SSLNoErr;
}

SSLErr
SSLDESEncrypt(SSLBuffer src, SSLBuffer dest, SSLBuffer *iv, void *cipherRef, SSLContext *ctx)
{
    DESState *s = (DESState *) cipherRef;
    void *subCipherRef = NULL;
      int              rsaErr;
      unsigned int         outputLen;
      SSLBuffer            temp;
      SSLErr           err;

    if(cipherRef == NULL)
            return SSLUnknownErr;

    if(iv != NULL)
    {
            if((rsaErr = B_SetAlgorithmInfo(s->des, AI_DES_CBC_IV8,
                                                                        (POINTER) iv->data)) !=
SSLNoErr)
                    return err;
    }
    else
    {
            if((rsaErr = B_SetAlgorithmInfo(s->des, AI_DES_CBC_IV8, s->iv)) != SSLNoErr)
                    return err;
    }

     ASSERT(src.length == dest.length);
     ASSERT(src.length % 8 == 0);

     if (src.data == dest.data)
/* BSAFE won't let you encrypt in place */
     {   if (ERR(err = SSLAllocBuffer(&temp, src.length, &ctx->sysCtx)) != 0)
             return err;
         memcpy(temp.data, src.data, (size_t) src.length);
     }
    else
        temp = src;

    if ((rsaErr = B_EncryptUpdate(s->des, dest.data, &outputLen,
                            (unsigned int) dest.length, temp.data,
                            (unsigned int) temp.length,
                    (B_ALGORITHM_OBJ) 0, &ctx->sysCtx.yield)) != 0)
    {   if (src.data == dest.data)
            SSLFreeBuffer(&temp, &ctx->sysCtx);
        return SSLUnknownErr;
    }

    ASSERT(outputLen == src.length);

    if (src.data == dest.data)
        SSLFreeBuffer(&temp, &ctx->sysCtx);

    if (outputLen != src.length)
        return SSLUnknownErr;

   /* if not doing SSLoppy, save the IV for next time... */
   if(iv == NULL)
   {
          unsigned char *buf;

          if((rsaErr = B_GetAlgorithmInfo((POINTER *) &buf, s->des,
                                                                         AI_DES_CBC_IV8))
             != SSLNoErr)
                 return err;

          memcpy(s->iv, buf, sizeof(s->iv));
   }

/* memcpy(s->iv, dest.data + dest.length - 8, 8); */

    return SSLNoErr;
}

SSLErr
SSLDESDecrypt(SSLBuffer src, SSLBuffer dest, SSLBuffer *iv, void *cipherRef, SSLContext *ctx)
{
  DESState *s = (DESState *) cipherRef;
   int              rsaErr;
   unsigned int         outputLen;
   SSLBuffer            temp;
   SSLErr           err;

  if(cipherRef == NULL)
         return SSLUnknownErr;

  if(iv != NULL)
  {
         if((rsaErr = B_SetAlgorithmInfo(s->des, AI_DES_CBC_IV8, (POINTER) iv->data))
            != SSLNoErr)
                return err;
  }
  else
  {
         if((rsaErr = B_SetAlgorithmInfo(s->des, AI_DES_CBC_IV8, s->iv)) != SSLNoErr)
                return err;
  }

   ASSERT(src.length == dest.length);
   ASSERT(src.length % 8 == 0);

/* memcpy(s->iv, src.data + src.length - 8, 8); */

   if (src.data == dest.data)
/* BSAFE won't let you encrypt in place */
   {   if (ERR(err = SSLAllocBuffer(&temp, src.length, &ctx->sysCtx)) != 0)
           return err;
        memcpy(temp.data, src.data, (size_t) src.length);
    }
    else
        temp = src;

    if ((rsaErr = B_DecryptUpdate(s->des, dest.data, &outputLen,
                            (unsigned int) dest.length, temp.data,
                            (unsigned int) temp.length,
                    (B_ALGORITHM_OBJ) 0, &ctx->sysCtx.yield)) != 0)
    {   if (src.data == dest.data)
            SSLFreeBuffer(&temp, &ctx->sysCtx);
        return SSLUnknownErr;
    }

    ASSERT(outputLen == src.length);

    if (src.data == dest.data)
        SSLFreeBuffer(&temp, &ctx->sysCtx);

    if (outputLen != src.length)
        return SSLUnknownErr;

  /* if not doing SSLoppy, save the IV for next time... */
  if(iv == NULL)
  {
          unsigned char *buf;

          if((rsaErr = B_GetAlgorithmInfo((POINTER *) &buf, s->des,
                                                                        AI_DES_CBC_IV8))
             != SSLNoErr)
                 return err;
          memcpy(s->iv, buf, sizeof(s->iv));
  }

    return SSLNoErr;
}

SSLErr
SSLDESFinish(void *cipherRef, SSLContext *ctx)
{
  DESState *s = (DESState *) cipherRef;
    SSLBuffer           desState;
    SSLErr          err;

  if(cipherRef == NULL)
          return SSLUnknownErr;

    B_DestroyAlgorithmObject(&(s->des));

  memset(cipherRef, 0, sizeof(DESState));
  desState.data = (unsigned char*)cipherRef;
    desState.length = sizeof(DESState);

    err = SSLFreeBuffer(&desState, &ctx->sysCtx);
    return err;
}

SSLErr SSLDESExport(void *cipherRef, SSLContext *ctx, SSLBuffer *blob)
{
  DESState *s = (DESState *) cipherRef;

  if(cipherRef == NULL)
          return SSLUnknownErr;

  if(blob->length < (8 + 8))
          return SSLMemoryErr;

  memcpy(blob->data, s->key, 8);
  memcpy(blob->data + 8, s->iv, 8);
/* memcpy(blob->data + 16, &(s->reading), sizeof(int)); */
  blob->length = 16;

  return SSLNoErr;
}

SSLErr SSLDESImport(void **cipherRef, SSLContext *ctx, SSLBuffer *blob)
{
  unsigned char *key, *iv;

  if(blob == NULL)
        return SSLUnknownErr;
  if(blob->length < 16)
        return SSLUnknownErr;

  key = blob->data;
  iv = blob->data + 8;

  return SSLDESInit(key, iv, cipherRef, ctx);
}


SSLErr SSL3DESInit(uint8 *key, uint8* iv, void **cipherRef, SSLContext *ctx);
SSLErr SSL3DESEncrypt(SSLBuffer src, SSLBuffer dest, SSLBuffer *iv, void *cipherRef, SSLContext
    *ctx);
SSLErr SSL3DESDecrypt(SSLBuffer src, SSLBuffer dest, SSLBuffer *iv, void *cipherRef, SSLContext
    *ctx);
SSLErr SSL3DESFinish(void *cipherRef, SSLContext *ctx);
SSLErr SSL3DESExport(void *cipherRef, SSLContext *ctx, SSLBuffer *blob);
SSLErr SSL3DESImport(void **cipherRef, SSLContext *ctx, SSLBuffer *blob);

SSLSymmetricCipher SSLCipher3DES_CBC = {
    24,     /* Key size in bytes */
    24,     /* Secret key size = 192 bits */
    8,      /* IV size */
    8,      /* Block size */
    SSL3DESInit,
    SSL3DESEncrypt,
    SSL3DESDecrypt,
    SSL3DESFinish,
   SSL3DESExport,
   SSL3DESImport
};

SSLErr
SSL3DESInit(uint8 *key, uint8* iv, void **cipherRef, SSLContext *ctx)
{
  SSLBuffer                     desState;
  DESState *s;
    static B_ALGORITHM_METHOD   *chooser[] = { &AM_DES_EDE3_CBC_ENCRYPT,

  &AM_DES_EDE3_CBC_DECRYPT, 0 };
    B_KEY_OBJ                   desKey;
    ITEM                        keyData;
    SSLErr                      err;
    int                         rsaErr;

    if ((err = SSLAllocBuffer(&desState, sizeof(DESState), &ctx->sysCtx)) != 0)
        return err;
    s = (DESState *)desState.data;
    if ((rsaErr = B_CreateAlgorithmObject(&(s->des))) != 0)
        return SSLUnknownErr;
    if ((rsaErr = B_SetAlgorithmInfo(s->des, AI_DES_EDE3_CBC_IV8, iv)) != 0)
        return SSLUnknownErr;
  memcpy(s->iv, iv, 8);

    if ((rsaErr = B_CreateKeyObject(&desKey)) != 0)
        return SSLUnknownErr;
    keyData.data = key;
    keyData.len = 24;
    if ((rsaErr = B_SetKeyInfo(desKey, KI_24Byte, key)) != 0)
    {
          B_DestroyKeyObject(&desKey);
        return SSLUnknownErr;
    }
   memcpy(s->key, key, 24);

    if (cipherRef == (void**)&(ctx->writePending.symCipherState))
    {
        if ((rsaErr = B_EncryptInit(s->des, desKey, chooser,
                                                        &ctx->sysCtx.yield)) != 0)
        {
                B_DestroyKeyObject(&desKey);
            return SSLUnknownErr;
        }
    }
    else if (cipherRef == (void**)&(ctx->readPending.symCipherState))
    {
        if ((rsaErr = B_DecryptInit(s->des, desKey, chooser,
                                                        &ctx->sysCtx.yield)) != 0)
        {
                B_DestroyKeyObject(&desKey);
            return SSLUnknownErr;
        }
    }
    else
        ASSERTMSG("Couldn't determine read/writeness");

    B_DestroyKeyObject(&desKey);
    *cipherRef = (void*)desState.data;
    return SSLNoErr;
}

SSLErr
SSL3DESEncrypt(SSLBuffer src, SSLBuffer dest, SSLBuffer *iv, void *cipherRef, SSLContext *ctx)
{
   DESState *s =(DESState *) cipherRef;
     int              rsaErr;
     unsigned int     outputLen;
     SSLBuffer        temp;
     SSLErr           err;

     ASSERT(src.length == dest.length);
     ASSERT(src.length % 8 == 0);
   if(cipherRef == NULL)
           return SSLUnknownErr;

   if(iv != NULL)
   {
           if((rsaErr = B_SetAlgorithmInfo(s->des, AI_DES_EDE3_CBC_IV8,
                                                               (POINTER) iv->data)) !=
   SSLNoErr)
                   return err;
   }
   else
   {
           if((rsaErr = B_SetAlgorithmInfo(s->des, AI_DES_EDE3_CBC_IV8, s->iv)) != SSLNoErr)
                   return err;
   }


   if (src.data == dest.data)
/* BSAFE won't let you encrypt in place */
    {   if (ERR(err = SSLAllocBuffer(&temp, src.length, &ctx->sysCtx)) != 0)
            return err;
        memcpy(temp.data, src.data, (size_t) src.length);
    }
    else
        temp = src;

    if ((rsaErr = B_EncryptUpdate(s->des, dest.data, &outputLen,
                        (unsigned int) dest.length, temp.data,
                        (unsigned int) temp.length,
                   (B_ALGORITHM_OBJ) 0, &ctx->sysCtx.yield)) != 0)
    {   if (src.data == dest.data)
            SSLFreeBuffer(&temp, &ctx->sysCtx);
        return SSLUnknownErr;
    }

    ASSERT(outputLen == src.length);

    if (src.data == dest.data)
        SSLFreeBuffer(&temp, &ctx->sysCtx);

    if (outputLen != src.length)
        return SSLUnknownErr;

   if(iv == NULL)
   {
          unsigned char *buf;

          if((rsaErr = B_GetAlgorithmInfo((POINTER *) &buf, s->des,
                                                                AI_DES_EDE3_CBC_IV8))
              != SSLNoErr)
                  return err;
          memcpy(s->iv, buf, sizeof(s->iv));
   }

/* memcpy(s->iv, dest.data + dest.length - 8, 8); */

    return SSLNoErr;
}

SSLErr
SSL3DESDecrypt(SSLBuffer src, SSLBuffer dest, SSLBuffer *iv, void *cipherRef, SSLContext *ctx)
{
   DESState *s = (DESState *) cipherRef;
     int              rsaErr;
     unsigned int         outputLen;
     SSLBuffer            temp;
     SSLErr           err;

     ASSERT(src.length == dest.length);
     ASSERT(src.length % 8 == 0);
   if(cipherRef == NULL)
          return SSLNoErr;

   if(iv != NULL)
   {
          if((rsaErr = B_SetAlgorithmInfo(s->des, AI_DES_EDE3_CBC_IV8,
                                                                (POINTER) iv->data)) !=
   SSLNoErr)
                 return err;
   }
   else
   {
          if((rsaErr = B_SetAlgorithmInfo(s->des, AI_DES_EDE3_CBC_IV8, s->iv)) != SSLNoErr)
                 return err;
   }

/* memcpy(s->iv, src.data + src.length - 8, 8);  */

    if (src.data == dest.data)
/* BSAFE won't let you encrypt in place */
    {   if (ERR(err = SSLAllocBuffer(&temp, src.length, &ctx->sysCtx)) != 0)
            return err;
        memcpy(temp.data, src.data, (size_t) src.length);
    }
    else
        temp = src;

    if ((rsaErr = B_DecryptUpdate(s->des, dest.data, &outputLen,
                            (unsigned int) dest.length, temp.data,
                            (unsigned int) temp.length,
                    (B_ALGORITHM_OBJ) 0, &ctx->sysCtx.yield)) != 0)
    {   if (src.data == dest.data)
            SSLFreeBuffer(&temp, &ctx->sysCtx);
        return SSLUnknownErr;
    }

   if(iv == NULL)
   {
           unsigned char *buf;

           if((rsaErr = B_GetAlgorithmInfo((POINTER *) &buf, s->des,
                                                                 AI_DES_EDE3_CBC_IV8)) !=
   SSLNoErr)
                   return err;
           memcpy(s->iv, buf, sizeof(s->iv));
   }

    ASSERT(outputLen == src.length);

    if (src.data == dest.data)
        SSLFreeBuffer(&temp, &ctx->sysCtx);

    if (outputLen != src.length)
        return SSLUnknownErr;

    return SSLNoErr;
}

SSLErr
SSL3DESFinish(void *cipherRef, SSLContext *ctx)
{
   DESState *s = (DESState *) cipherRef;
    SSLBuffer           desState;
    SSLErr          err;

   if(cipherRef == NULL)
           return SSLUnknownErr;

   B_DestroyAlgorithmObject(&(s->des));

   memset(cipherRef, 0, sizeof(DESState));
    desState.data = (unsigned char*)cipherRef;
    desState.length = sizeof(DESState);
    err = SSLFreeBuffer(&desState, &ctx->sysCtx);
    return err;
}

SSLErr SSL3DESExport(void *cipherRef, SSLContext *ctx, SSLBuffer *blob)
{
   DESState *s = (DESState *) cipherRef;

   if(cipherRef == NULL)
           return SSLUnknownErr;

   if(blob->length < (24 + 8))
           return SSLMemoryErr;

   memcpy(blob->data, s->key, 24);
   memcpy(blob->data + 24, s->iv, 8);
   blob->length = 32;

   return SSLNoErr;
}

SSLErr SSL3DESImport(void **cipherRef, SSLContext *ctx, SSLBuffer *blob)
{
   unsigned char *key, *iv;

   if(blob == NULL)
           return SSLUnknownErr;
   if(blob->length < 32)
           return SSLUnknownErr;
```

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    key = blob->data;
    iv = blob->data + 24;

    return SSL3DESInit(key, iv, cipherRef, ctx);
}
```